

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Joo-Sang Lee

Filed: Herewith

Docket: 2003P52603US/I331.104.101

Title: MEMORY SYSTEM WITH REDUCED REFRESH CURRENT

---

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of M.P.E.P. 609, Applicant further requests a copy of the 1449 form, marked as being considered and initialled by the Examiner, be returned with the next Official Communication.

Since this Information Disclosure Statement is being submitted within three months of filing national application; or date of entry of national application; or before the mailing date of the first Office Action on the merits, a fee has not been enclosed. However, if such fee is required, the Patent Office is hereby authorized to charge Deposit Account No. 500471 for fees as set forth under 37 C.F.R. 1.17(p).

**Information Disclosure Statement**

Applicant: Joo-Sang Lee

Filing Date: Herewith

Docket: 2003P52603US/I331.104.101

Title: MEMORY SYSTEM WITH REDUCED REFRESH CURRENT

---

Applicant respectfully requests consideration of these references during prosecution of the above-identified matter. The Examiner is invited to contact the Applicant's representative at the below-listed telephone number if there are any questions regarding this Communication or the tendered references.

Respectfully submitted,

Joo-Sang Lee,

By his attorneys,

DICKE, BILLIG & CZAJA, PLLC

Fifth Street Towers, Suite 2250

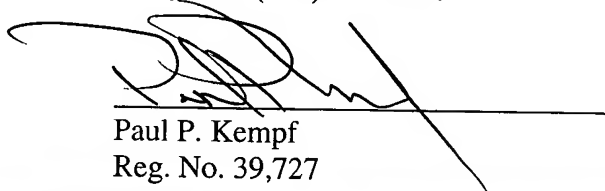
100 South Fifth Street

Minneapolis, MN 55402

Telephone: (612) 767-2502

Facsimile: (612) 573-2005

Dated: 9/25/03  
PPK:cmj

  
Paul P. Kempf  
Reg. No. 39,727

CERTIFICATE UNDER 37 C.F.R. 1.10:

"Express Mail" mailing label number: EV310987935US

Date of Deposit: September 25, 2003

The undersigned hereby certifies that this paper or papers, as described herein, are being deposited in the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By Christine M. Johnson  
Name: Christine M. Johnson

<b>FORM PTO-1449</b>	Docket No.: 2003P52603US/I331.104.101	Serial No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Joo-Sang Lee	
	Filing Date: Herewith	Group Art:

### U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	5,331,601	7/1994	Parris			
AB	5,875,143	2/1999	Ben-Zvi			
AC	6,363,024	3/2002	Fibranz			
AD	6,373,769	4/2002	Kiehl et al.			
AE	6,404,690	6/2002	Johnson et al.			
AF	6,418,067	7/2002	Watanabe et al.			
AG	6,580,651	6/2003	Han			
AH	6,597,622	7/2003	Lee et al.			
AI	6,603,694	8/2003	Frankowsky et al.			
AJ	6,603,704	8/2003	Wilson			
AK						
AL						

### FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translated Yes No
AM						Yes
AN						Yes
AO						Yes

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	
AQ	
AR	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.